

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/DE 02/02623

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B29C45/18 B29C45/58 B29C44/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	DE 201 12 525 U (SCHUERMANN ERICH) 22 November 2001 (2001-11-22) the whole document ---	1-8
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) -& JP 09 277298 A (HITACHI LTD), 28 October 1997 (1997-10-28) abstract; figures 1,6,9 ---	1,2,5,6
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) -& JP 2000 218664 A (JAPAN STEEL WORKS LTD:THE), 8 August 2000 (2000-08-08) abstract; figures 1-5 ---	1,2,5,6
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

2 December 2002

Date of mailing of the international search report

06/12/2002

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Brunswick, A

INTERNATIONAL SEARCH REPORT

In ☐ International Application No
PCT/DE 02/02623

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 19 03 540 A (SIEMAG SIEGENER MASCHB GMBH) 13 August 1970 (1970-08-13) figures 1,7	1,5
A	US 4 128 342 A (RENK PAUL) 5 December 1978 (1978-12-05) figure 1	3,4

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. Application No

PCT/DE 02/02623

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 20112525	U	22-11-2001	DE 20112525 U1	22-11-2001
JP 09277298	A	28-10-1997	NONE	
JP 2000218664	A	08-08-2000	NONE	
DE 1903540	A	13-08-1970	DE 1903540 A1	13-08-1970
US 4128342	A	05-12-1978	BR 7506567 A	17-08-1976
			DD 124023 A1	02-02-1977
			FR 2287830 A7	07-05-1976
			GB 1475216 A	01-06-1977
			SU 633457 A3	30-11-1979
			US 4253771 A	03-03-1981